



## Safety Data Sheet according to (EC) No 1907/2006 as amended

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BONDERITE M-FE 3993 W IRON PHOSPHATE known as Duridine  
3993 W LF245+

SDS No.: 47001  
V007.0

Revision: 17.05.2022  
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Replaces version from: 31.07.2019

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

BONDERITEM-FE 3993 W IRON PHOSPHATE known as Duridine 3993 W LF245+

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use:

Phosphating Products for Metals

#### 1.3. Details of the supplier of the safety data sheet

Henkel AG & Co. KGaA

Henkelstr. 67

40589 Düsseldorf

Germany

Phone: +49 211 797 0

ua-productsafety.de@henkel.com

For Safety Data Sheet updates please visit our website <https://mysds.henkel.com/index.html#/appSelection> or [www.henkel-adhesives.com](http://www.henkel-adhesives.com).

#### 1.4. Emergency telephone number

The Henkel information service also provides an around-the-clock telephone service on phone no. +49-(0)211-797-3350 for exceptional cases.

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (CLP):

Corrosive to metals

Category 1

H290 May be corrosive to metals.

Skin corrosion

Category 1

H314 Causes severe skin burns and eye damage.

Serious eye damage

Category 1

H318 Causes serious eye damage.

Skin sensitizer

Category 1

H317 May cause an allergic skin reaction.

#### 2.2. Label elements

##### Label elements (CLP):

**Hazard pictogram:**



**Contains**

sodium 3-nitrobenzenesulphonate

**Signal word:**

Danger

**Hazard statement:**

H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.

**Precautionary statement:  
Prevention**

P260 Do not breathe mist/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Precautionary statement:  
Response**

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER or doctor.

**2.3. Other hazards**

None if used properly.  
The classification as corrosive H314 category 1 is due to the extreme pH.  
Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

**Following substances are present in a concentration  $\geq 0,1\%$  and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):**

This mixture does not contain any substances in concentration  $\geq$  the concentration limit that are assessed to be a PBT, vPvB or ED.

**SECTION 3: Composition/information on ingredients**

**3.2. Mixtures**

**Declaration of the ingredients according to CLP (EC) No 1272/2008:**

Hazardous components CAS-No. EC Number REACH-Reg No.	Concentration	Classification	Specific Conc. Limits, M-factors and ATEs	Add. Information
Phosphoric acid 7664-38-2 231-633-2 01-2119485924-24	5- < 10 %	Met. Corr. 1, H290 Skin Corr. 1B, H314 Acute Tox. 4, Oral, H302	Skin Corr. 1B; H314; C $\geq 25$ % Eye Irrit. 2; H319; C 10 - < 25 % Skin Irrit. 2; H315; C 10 - < 25 % =====	EU OEL
sodium 3-nitrobenzenesulphonate 127-68-4 204-857-3 01-2119965131-44	1- < 5 %	Eye Irrit. 2, H319 Skin Sens. 1, H317		
Sodium p-cumenesulphonate 15763-76-5 239-854-6 01-2119489411-37	1- < 5 %	Eye Irrit. 2, H319		

**For full text of the H - statements and other abbreviations see section 16 "Other information".**  
**Substances without classification may have community workplace exposure limits available.**  
**Declaration of ingredients according to Detergent Regulation 648/2004/EC**

15 - 30 %	phosphates
< 5 %	non-ionic surfactants

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation:

Move to fresh air, consult doctor if complaint persists.

#### Skin contact:

Immediately rinse with copious amounts of running water (for 10 minutes). Remove contaminated clothes. Put on a bandage with sterile gauze, seek medical attention in hospital.

#### Eye contact:

Immediately flush eyes with soft jet of water or eye rinse solution for at least 15 minutes. Hold eyelid wide-open. Seek a doctor/hospital, eye flushing should continue during transportation to a doctor.

#### Ingestion:

Rinse out mouth, drink 1-2 glasses of water, do not induce vomiting.

Immediate medical treatment necessary.

### 4.2. Most important symptoms and effects, both acute and delayed

Causes burns.

### 4.3. Indication of any immediate medical attention and special treatment needed

See section: Description of first aid measures

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media:

All common extinguishing agents are suitable.

#### Extinguishing media which must not be used for safety reasons:

None known

### 5.2. Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in fires.

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus.

Wear protective equipment.

#### Additional information:

In case of fire, keep containers cool with water spray.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.

### 6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

### 6.3. Methods and material for containment and cleaning up

Neutralize with acid-binding material (e.g. powdered limestone).  
Take up with liquid-absorbing material (sand).  
Dispose of contaminated material as waste according to Section 13.

### 6.4. Reference to other sections

See advice in section 8

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

When diluting, always stir slowly the product into standing water.  
Avoid skin and eye contact.  
Ensure that workrooms are adequately ventilated.  
See advice in section 8

Hygiene measures:

Wash hands before work breaks and after finishing work.  
Do not eat, drink or smoke while working.  
Wash contaminated clothing before reuse.  
The workplace should be equipped with an emergency shower and eye-rinsing facility.

### 7.2. Conditions for safe storage, including any incompatibilities

Store frost-free.  
Keep only in original container.

### 7.3. Specific end use(s)

Phosphating Products for Metals

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational Exposure Limits

Valid for  
Germany

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit category / Remarks	Regulatory list
Orthophosphoric acid 7664-38-2 [ORTHOPHOSPHORIC ACID]		2	Short Term Exposure Limit (STEL):	Indicative	ECTLV
Orthophosphoric acid 7664-38-2 [ORTHOPHOSPHORIC ACID]		1	Time Weighted Average (TWA):	Indicative	ECTLV
Orthophosphoric acid 7664-38-2			Short Term Exposure Classification:	Category I: substances for which the localized effect has an assigned OEL or for substances with a sensitizing effect in respiratory passages.	TRGS 900
Orthophosphoric acid 7664-38-2		2	Exposure limit(s):	2 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900

**Predicted No-Effect Concentration (PNEC):**

Name on list	Environmental Compartment	Exposure period	Value				Remarks
			mg/l	ppm	mg/kg	others	
phosphoric acid 7664-38-2	sediment (freshwater)						no hazard identified
phosphoric acid 7664-38-2	sediment (marine water)						no hazard identified
phosphoric acid 7664-38-2	Air						no hazard identified
phosphoric acid 7664-38-2	Soil						no hazard identified
phosphoric acid 7664-38-2	Predator						no potential for bioaccumulation
Sodium 3-nitrobenzenesulphonate 127-68-4	aqua (freshwater)		0,5 mg/l				
Sodium 3-nitrobenzenesulphonate 127-68-4	aqua (marine water)		0,05 mg/l				
Sodium 3-nitrobenzenesulphonate 127-68-4	aqua (intermittent releases)		5 mg/l				
Sodium 3-nitrobenzenesulphonate 127-68-4	sediment (freshwater)				2,58 mg/kg		
Sodium 3-nitrobenzenesulphonate 127-68-4	sediment (marine water)				0,258 mg/kg		
Sodium 3-nitrobenzenesulphonate 127-68-4	Soil				0,222 mg/kg		
Sodium 3-nitrobenzenesulphonate 127-68-4	sewage treatment plant (STP)		10000 mg/l				
Sodium p-cumenesulphonate 15763-76-5	aqua (freshwater)		0,23 mg/l				
Sodium p-cumenesulphonate 15763-76-5	aqua (intermittent releases)		2,3 mg/l				
Sodium p-cumenesulphonate 15763-76-5	sewage treatment plant (STP)		100 mg/l				
Sodium p-cumenesulphonate 15763-76-5	aqua (marine water)		0,023 mg/l				
Sodium p-cumenesulphonate 15763-76-5	sediment (freshwater)				0,862 mg/kg		
Sodium p-cumenesulphonate 15763-76-5	sediment (marine water)				0,0862 mg/kg		
Sodium p-cumenesulphonate 15763-76-5	Soil				0,037 mg/kg		

**Derived No-Effect Level (DNEL):**

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
phosphoric acid 7664-38-2	Workers	inhalation	Long term exposure - systemic effects		10,7 mg/m <sup>3</sup>	no hazard identified
phosphoric acid 7664-38-2	General population	inhalation	Long term exposure - systemic effects		4,57 mg/m <sup>3</sup>	no hazard identified
phosphoric acid 7664-38-2	General population	inhalation	Long term exposure - local effects		0,36 mg/m <sup>3</sup>	no hazard identified
phosphoric acid 7664-38-2	General population	oral	Long term exposure - systemic effects		0,1 mg/kg	no hazard identified
phosphoric acid 7664-38-2	Workers	inhalation	Long term exposure - local effects		1 mg/m <sup>3</sup>	no hazard identified
phosphoric acid 7664-38-2	Workers	inhalation	Acute/short term exposure - local effects		2 mg/m <sup>3</sup>	no hazard identified
Sodium 3-nitrobenzenesulphonate 127-68-4	Workers	Inhalation	Long term exposure - systemic effects		5 mg/m <sup>3</sup>	
Sodium 3-nitrobenzenesulphonate 127-68-4	Workers	dermal	Long term exposure - systemic effects		97,6 mg/kg	
Sodium 3-nitrobenzenesulphonate 127-68-4	General population	dermal	Long term exposure - systemic effects		29,3 mg/kg	
Sodium 3-nitrobenzenesulphonate 127-68-4	General population	oral	Long term exposure - systemic effects		2,93 mg/kg	
Sodium p-cumenesulphonate 15763-76-5	Workers	dermal	Long term exposure - systemic effects		136,25 mg/kg	
Sodium p-cumenesulphonate 15763-76-5	Workers	inhalation	Long term exposure - systemic effects		26,9 mg/m <sup>3</sup>	
Sodium p-cumenesulphonate 15763-76-5	Workers	dermal	Long term exposure - local effects		0,096 mg/cm <sup>2</sup>	
Sodium p-cumenesulphonate 15763-76-5	General population	dermal	Long term exposure - systemic effects		68,1 mg/kg	
Sodium p-cumenesulphonate 15763-76-5	General population	inhalation	Long term exposure - systemic effects		6,6 mg/m <sup>3</sup>	
Sodium p-cumenesulphonate 15763-76-5	General population	oral	Long term exposure - systemic effects		3,8 mg/kg	
Sodium p-cumenesulphonate 15763-76-5	General population	dermal	Long term exposure - local effects		0,048 mg/cm <sup>2</sup>	

**Biological Exposure Indices:**

None

**8.2. Exposure controls:**

Engineering controls:

Ensure good ventilation/suction at the workplace.

Respiratory protection:

In case of aerosol formation, we recommend wearing of appropriate respiratory protection equipment with ABEK P2 filter (EN 14387).

This recommendation should be matched to local conditions.

**Hand protection:**

Chemical-resistant protective gloves (EN 374). Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374): Polychloroprene (CR; ≥ 1 mm thickness) or natural rubber (NR; ≥ 1 mm thickness) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Polychloroprene (CR; ≥ 1 mm thickness) or natural rubber (NR; ≥ 1 mm thickness) This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

**Eye protection:**

Goggles which can be tightly sealed.

Protective eye equipment should conform to EN166.

**Skin protection:**

Protective clothing that covers arms and legs.

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

**Advices to personal protection equipment:**

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state	liquid
Delivery form	liquid
Colour	slightly yellowish
Odor	no valuation
Solidification temperature	< 0 °C (< 32 °F)
Initial boiling point	> 100 °C (> 212 °F) no method
Flammability	Not applicable
	Aqueous solution
Explosive limits	Not applicable, The product is not flammable., Aqueous solution
Flash point	Not applicable, No flash point up to 100°C. Aqueous preparation., Aqueous solution
Auto-ignition temperature	Not applicable, Aqueous solution
pH	1,3 - 1,9 PH-value, potentiometer
(20 °C (68 °F); Conc.: 100 % product)	
pH	2,2 - 2,8 PH-value, potentiometer
(20 °C (68 °F); Conc.: 1 Weight%; Solvent: Demineralised water)	
Viscosity (kinematic)	1,5 - 4 mm <sup>2</sup> /s
(40 °C (104 °F); )	
Solubility (qualitative)	Miscible
(20 °C (68 °F); Solvent: Water)	
Vapour pressure	(aqueous solution)
Vapour pressure	Values referring to water
Density	1,18 - 1,22 g/cm <sup>3</sup> Density, oscillation
(20 °C (68 °F))	
Relative vapour density:	< 1
(20 °C)	

**9.2. Other information**

Other information not applicable for this product

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reaction with strong bases

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

See section reactivity

### 10.4. Conditions to avoid

No decomposition if used according to specifications.

### 10.5. Incompatible materials

See section reactivity.

### 10.6. Hazardous decomposition products

None if used for intended purpose.

In case of fire toxic gases can be released.

## SECTION 11: Toxicological information

### General toxicological information:

The classification as corrosive H314 category 1 is due to the extreme pH.

### 1.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Phosphoric acid 7664-38-2	Acute toxicity estimate (ATE)	1.500 mg/kg		Expert judgement
sodium 3- nitrobenzenesulphonate 127-68-4	LD50	> 5.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Sodium p- cumenesulphonate 15763-76-5	LD50	3.346 mg/kg	rat	EPA OTS798.1175 (Acute Oral Toxicity)

#### Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Sodium p- cumenesulphonate 15763-76-5	LD50	> 2.000 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)



**Acute inhalative toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Test atmosphere	Exposure time	Species	Method
Sodium p-cumenesulphonate 15763-76-5	LC50	> 6,41 mg/l	dust/mist	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)

**Skin corrosion/irritation:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Phosphoric acid 7664-38-2	corrosive	24 h	rabbit	not specified
Sodium p-cumenesulphonate 15763-76-5	not irritating	24 h	rabbit	Draize Test

**Serious eye damage/irritation:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Sodium p-cumenesulphonate 15763-76-5	moderately irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

**Respiratory or skin sensitization:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Species	Method
sodium 3-nitrobenzenesulphonate 127-68-4	sensitising	Guinea pig maximisation test	guinea pig	EU Method B.6 (Skin Sensitisation)
Sodium p-cumenesulphonate 15763-76-5	not sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

**Germ cell mutagenicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Type of study/ Route of administration	Metabolic activation/ Exposure time	Species	Method
Phosphoric acid 7664-38-2	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Phosphoric acid 7664-38-2	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Phosphoric acid 7664-38-2	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
sodium 3- nitrobenzenesulphonate 127-68-4	negative	in vitro mammalian chromosome aberration test	with and without		not specified
sodium 3- nitrobenzenesulphonate 127-68-4	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		not specified
Sodium p- cumenesulphonate 15763-76-5	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		EPA OTS 798.5265 (The Salmonella typhimurium Bacterial Reverse Mutation Test)
Sodium p- cumenesulphonate 15763-76-5	negative	in vitro mammalian chromosome aberration test	with and without		EPA OPPTS 870.5375 (In Vitro Mammalian Chromosome Aberration)
Sodium p- cumenesulphonate 15763-76-5	negative	mammalian cell gene mutation assay	with and without		EPA OPPTS 870.5300 (Detection of Gene Mutations in Somatic Cells in Culture)
Sodium p- cumenesulphonate 15763-76-5	negative	sister chromatid exchange assay in mammalian cells	with and without		EPA OPPTS 870.5900 (In Vitro Sister Chromatid Exchange Assay in Mammalian Cells)
sodium 3- nitrobenzenesulphonate 127-68-4	negative	oral: unspecified		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Sodium p- cumenesulphonate 15763-76-5	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

**Carcinogenicity**

No data available.

**Reproductive toxicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Test type	Route of application	Species	Method
Phosphoric acid 7664-38-2	NOAEL P 500 mg/kg NOAEL F1 500 mg/kg	one- generation study	oral: gavage	rat	OECD Combined Repeated Dose and Reproductive / Developmental Toxicity Screening Test (Precursor Protocol of GL 422)
Sodium p- cumenesulphonate 15763-76-5	NOAEL P 300 mg/kg NOAEL F1 1.000 mg/kg	screening	oral: gavage	rat	OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test)

**STOT-single exposure:**

No data available.

**STOT-repeated exposure::**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
Phosphoric acid 7664-38-2	NOAEL 250 mg/kg	oral: gavage	6 w daily	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
sodium 3- nitrobenzenesulphonate 127-68-4	LOAEL $\geq$ 1.000 mg/kg	oral: gavage	28 days daily	rat	Guidelines for 28-Day Repeat Dose Toxicity Test (Japan)
Sodium p- cumenesulphonate 15763-76-5	NOAEL > 763 mg/kg	oral: feed	90 d daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

**Aspiration hazard:**

No data available.

**11.2 Information on other hazards**

not applicable

## SECTION 12: Ecological information

### General ecological information:

Locally harmful for aquatic and landliving organisms because of low pH and corrosive properties.

Do not empty into drains / surface water / ground water.

The biodegradability of the surfactants contained in the product is in accordance with the requirements of the EU Detergent Regulation (EC/648/2004).

The surfactants contained in the products are primary biodegradable to at least 90% on average.

### 12.1. Toxicity

#### Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Phosphoric acid 7664-38-2	LC50	> 100 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
sodium 3- nitrobenzenesulphonate 127-68-4	LC50	> 500 mg/l	96 h	Leuciscus idus	DIN 38412-15
Sodium p-cumenesulphonate 15763-76-5	LC50	> 100 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)

#### Toxicity (Daphnia):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Phosphoric acid 7664-38-2	EC50	> 100 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
sodium 3- nitrobenzenesulphonate 127-68-4	EC50	8.665 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Sodium p-cumenesulphonate 15763-76-5	EC50	> 100 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

#### Chronic toxicity to aquatic invertebrates

No data available.

#### Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Phosphoric acid 7664-38-2	EC50	> 100 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Phosphoric acid 7664-38-2	NOEC	100 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
sodium 3- nitrobenzenesulphonate 127-68-4	EC50	> 500 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	DIN 38412-09
Sodium p-cumenesulphonate 15763-76-5	EC50	> 100 mg/l	96 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)

#### Toxicity to microorganisms

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Phosphoric acid 7664-38-2	IC50	270 mg/l	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
sodium 3- nitrobenzenesulphonate 127-68-4	EC10	> 10.000 mg/l	17 h		not specified

#### 12.2. Persistence and degradability

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
sodium 3- nitrobenzenesulphonate 127-68-4	not readily biodegradable.	aerobic	0 %	30 d	EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test)
sodium 3- nitrobenzenesulphonate 127-68-4	not inherently biodegradable	aerobic	> 90 %		OECD Guideline 302 B (Inherent biodegradability: Zahn- Wellens/EMPA Test)
Sodium p-cumenesulphonate 15763-76-5	readily biodegradable	aerobic	99,8 %	28 day	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)

#### 12.3. Bioaccumulative potential

No data available.

#### 12.4. Mobility in soil

Hazardous substances CAS-No.	LogPow	Temperature	Method
sodium 3-nitrobenzenesulphonate 127-68-4	-2,61	25 °C	OECD Guideline 107 (Partition Coefficient (n-octanol/ water), Shake Flask Method)

#### 12.5. Results of PBT and vPvB assessment

Hazardous substances CAS-No.	PBT/ vPvB
Phosphoric acid 7664-38-2	According to Annex XIII of regulation (EC) 1907/2006 a PBT and vPvB assessment shall not be conducted for inorganic substances.
sodium 3-nitrobenzenesulphonate 127-68-4	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Sodium p-cumenesulphonate 15763-76-5	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

#### 12.6. Endocrine disrupting properties

not applicable

#### 12.7. Other adverse effects

If acidic or alkaline products are discharged into wastewater installations care must be taken that the discharged wastewater has a pH in the range pH 6 - 10, as pH variations could cause disorders in wastewater channels and biological sewage treatment plants. The local discharge regulations take precedence.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product disposal:

In consultation with the responsible local authority, must be subjected to special treatment.

Waste code

EW/EAK 070608

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

**SECTION 14: Transport information****14.1. UN number**

ADR	1760
RID	1760
ADN	1760
IMDG	1760
IATA	1760

**14.2. UN proper shipping name**

ADR	CORROSIVE LIQUID, N.O.S. (Phosphoric acid,Gluconic acid)
RID	CORROSIVE LIQUID, N.O.S. (Phosphoric acid,Gluconic acid)
ADN	CORROSIVE LIQUID, N.O.S. (Phosphoric acid,Gluconic acid)
IMDG	CORROSIVE LIQUID, N.O.S. (Phosphoric acid,Gluconic acid)
IATA	Corrosive liquid, n.o.s. (Phosphoric acid,Gluconic acid)

**14.3. Transport hazard class(es)**

ADR	8
RID	8
ADN	8
IMDG	8
IATA	8

**14.4. Packing group**

ADR	II
RID	II
ADN	II
IMDG	II
IATA	II

**14.5. Environmental hazards**

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

**14.6. Special precautions for user**

ADR	not applicable Tunnelcode: (E)
RID	not applicable
ADN	not applicable
IMDG	IMDG-Code: Segregation group 1- Acids
IATA	not applicable

**14.7. Maritime transport in bulk according to IMO instruments**

not applicable

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009):	Not applicable
Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):	Not applicable
Persistent organic pollutants (Regulation (EU) 2019/1021):	Not applicable
VOC content (2010/75/EU)	0 %

## 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

### National regulations/information (Germany):

WGK: WGK 1: slightly hazardous to water (Ordinance on facilities for handling substances that are hazardous to water (AwSV) )  
Classification according to AwSV, Annex 1 (5.2)

Storage class according to TRGS 510: 8B

## SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

H290 May be corrosive to metals.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.

ED: Substance identified as having endocrine disrupting properties  
EU OEL: Substance with a Union workplace exposure limit  
EU EXPLD 1: Substance listed in Annex I, Reg (EC) No. 2019/1148  
EU EXPLD 2: Substance listed in Annex II, Reg (EC) No. 2019/1148  
SVHC: Substance of very high concern (REACH Candidate List)  
PBT: Substance fulfilling persistent, bioaccumulative and toxic criteria  
PBT/vPvB: Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very bioaccumulative criteria  
vPvB: Substance fulfilling very persistent and very bioaccumulative criteria

### Further information:

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This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

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